

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/632,645B

Source: IFU016

Date Processed by STIC: 01/24/2007

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/24/2007

PATENT APPLICATION: US/10/632,645B

TIME: 11:25:42

Input Set : E:\1011.txt

Output Set: N:\CRF4\01242007\J632645B.raw

3 <110> APPLICANT: Coutu, Linda B.  
 4 Colosi, Peter B.  
 5 Qian, Xiabong  
 7 <120> TITLE OF INVENTION: ADENO-ASSOCIATED VECTOR COMPOSITIONS FOR EXPRESSION OF  
 FACTOR  
 8 VIII  
 10 <130> FILE REFERENCE: 1011CON1.2  
 12 <140> CURRENT APPLICATION NUMBER: US 10/632,645B  
 13 <141> CURRENT FILING DATE: 2003-08-01  
 15 <150> PRIOR APPLICATION NUMBER: US 09/740,213  
 16 <151> PRIOR FILING DATE: 2000-12-18  
 18 <150> PRIOR APPLICATION NUMBER: US 09/470,618  
 19 <151> PRIOR FILING DATE: 1999-12-22  
 21 <150> PRIOR APPLICATION NUMBER: US 09/634,862  
 22 <151> PRIOR FILING DATE: 1999-07-30  
 24 <150> PRIOR APPLICATION NUMBER: US 60/125,974  
 25 <151> PRIOR FILING DATE: 1999-03-24  
 27 <150> PRIOR APPLICATION NUMBER: US 60/104,994  
 28 <151> PRIOR FILING DATE: 1998-10-20  
 30 <160> NUMBER OF SEQ ID NOS: 15  
 32 <170> SOFTWARE: PatentIn version 3.3  
 34 <210> SEQ ID NO: 1  
 35 <211> LENGTH: 59  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Oligonucleotide Z8A  
 42 <400> SEQUENCE: 1  
 43 cccaagcttg cgcccgccc ggtgccgcc ctaggcaggt aagtgccgtg tgtggttcc 59  
 46 <210> SEQ ID NO: 2  
 47 <211> LENGTH: 59  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: Oligonucleotide Z8A  
 54 <400> SEQUENCE: 2  
 55 ccgctcgagc agagctctat ttgcatgggtg gaatcgatgc cgcggaacc acacacggc 59  
 58 <210> SEQ ID NO: 3  
 59 <211> LENGTH: 103  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:  
 64 <223> OTHER INFORMATION: PCR fragment Z8  
 66 <400> SEQUENCE: 3

## RAW SEQUENCE LISTING

DATE: 01/24/2007

PATENT APPLICATION: US/10/632,645B

TIME: 11:25:42

Input Set : E:\1011.txt

Output Set: N:\CRF4\01242007\J632645B.raw

```

67 cccaagcttg cgcccgcccg ggtgccgcc ctaggcaggt aagtgccgtg tgtggttccc      60
69 gcggcatcga ttccaccatg caaatagagc tctgctcgag cgg                      103
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 57
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Oligonucleotide INT3S
80 <400> SEQUENCE: 4
81 ttcccgccgg cctggcctct ttacgggtta tggcccttgc gtgccttgaa ttactga      57
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 57
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Oligonucleotide INT3A
92 <400> SEQUENCE: 5
93 gaatcgatac ctgtggagaa aaagaaaaaag tggatgtcag tgtcagtaat tcaaggc      57
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 99
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: PCR fragment INT3
104 <400> SEQUENCE: 6
105 ttcccgccgg cctggcctct ttacgggtta tggcccttgc gtgccttgaa ttactgacac    60
107 tgacatccac tttttctttt tctccacagg tatcgattc                          99
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 100
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Oligonucleotide EG3S
118 <400> SEQUENCE: 7
119 agggaatggt tgttcttaaa taccatccag ggaatgtttg ttcttaaata ccatccaggg    60
121 aatgtttggt cttaaatacc atctacagtt attggttaaa                          100
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 59
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Oligonucleotide EG3A
132 <400> SEQUENCE: 8
133 ggaaaggtga tctgtgtgca gaaagactcg ctctaataata cttctttaac caataactg      59
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 144
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 01/24/2007

PATENT APPLICATION: US/10/632,645B

TIME: 11:25:42

Input Set : E:\1011.txt

Output Set: N:\CRF4\01242007\J632645B.raw

```

142 <223> OTHER INFORMATION: PCR fragment EG3
144 <400> SEQUENCE: 9
145 aggggaatggtt tggtctttaa taccatccag ggaatgtttg ttcttaaata ccatccaggg      60
147 aatgtttgtt cttaaatacc atctacagtt attgggttaa gaagtatat agagcgagtc      120
149 tttctgcaca cagatcacct ttcc                                           144
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 59
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Oligonucleotide SPA.S
160 <400> SEQUENCE: 10
161 tcgagaataa aagatcagag ctctagagat ctgtgtgttg gttttttgtg tgcggccgc      59
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 59
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Oligonucleotide SPA.A
172 <400> SEQUENCE: 11
173 tcgagcggcc gcacacaaaa aaccaacaca cagatctcta gagctctgat cttttattc      59
176 <210> SEQ ID NO: 12
177 <211> LENGTH: 63
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: PCR fragment SPA
184 <400> SEQUENCE: 12
185 tcgagaataa aagatcagag ctctagagat ctgtgtgttg gttttttgtg tgcggccgct      60
187 cga                                                                    63
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 11933
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Vector from ITR to ITR
198 <400> SEQUENCE: 13
199 cagctgcgcg ctgctcgtc cactgaggcc gcccgggcaa agcccgggcg tcgggcgacc      60
201 tttggtcgcc cggcctcagt gagcgagcga gcgcgcagag agggagtggc caactccatc      120
203 actaggggtt cctgcggccg ccaggggaat gtttgttctt aaataccatc caggggaatgt      180
205 ttgttcttaa ataccatcca gggaatgttt gttcttaaata accatctaca gttattggtt      240
207 aaagaagtat attagagcga gtctttctgc acacagatca cctttccggg tgccgcccct      300
209 aggcaggtaa gtgccgtgtg tggttccgcg gggcctggcc tctttacggg ttatggccct      360
211 tgctgcctt gaattactga cactgacatc cactttttct ttttctccac aggtatcgat      420
213 tccaccatgc aaatagagct ctccacctgc ttctttctgt gccttttgcg attctgcttt      480
215 agtgccacca gaagatacta cctgggtgca gtggaactgt catgggacta tatgcaaagt      540
217 gatctcggtg agctgcctgt ggacgcaaga tttcctccta gattgcaaaa atcttttcca      600
219 ttcaacacct cagtcgtgta caaaaagact ctgtttgtag aattcacgga tcaccttttc      660
221 aacatcgcta agccaaggcc accctggatg ggtctgctag gtcctaccat ccaggctgag      720

```

## RAW SEQUENCE LISTING

DATE: 01/24/2007

PATENT APPLICATION: US/10/632,645B

TIME: 11:25:42

Input Set : E:\1011.txt

Output Set: N:\CRF4\01242007\J632645B.raw

223	gtttatgata	cagtggtcat	tacacttaag	aacatggctt	cccatcctgt	cagtcctcat	780
225	gctgttggtg	tatcctactg	gaaagcttct	gagggagctg	aatatgatga	tcagaccagt	840
227	caaagggaga	aagaagatga	taaagtcttc	cctgggtggaa	gccatacata	tgtctggcag	900
229	gtcctgaaag	agaatggtcc	aatggcctct	gacccactgt	gccttaccta	ctcatatctt	960
231	tctcatgtgg	acctggtaaa	agacttgaat	tcaggcctca	ttggagccct	actagtatgt	1020
233	agagaaggga	gtctggccaa	ggaaaagaca	cagaccttgc	acaaatttat	actacttttt	1080
235	gctgtatttg	atgaaggga	aagtggcac	tcagaaacaa	agaactcctt	gatgcaggat	1140
237	agggatgctg	catctgctcg	ggcctggcct	aaaatgcaca	cagtcaatgg	ttatgtaaac	1200
239	aggtctctgc	caggtctgat	tggatgccac	aggaaatcag	tctattggca	tgtgattgga	1260
241	atgggcacca	ctcctgaagt	gcactcaata	ttcctcgaag	gtcacacatt	tcttgtgagg	1320
243	aaccatcgcc	aggcgtcctt	ggaaatctcg	ccaataactt	tccttactgc	tcaaacactc	1380
245	ttgatggacc	ttggacagtt	tctactgttt	tgtcatatct	cttcccacca	acatgatggc	1440
247	atggaagctt	atgtcaaagt	agacagctgt	ccagaggaac	cccaactacg	aatgaaaaat	1500
249	aatgaagaag	cggaagacta	tgatgatgat	cttactgatt	ctgaaatgga	tgtggtcagg	1560
251	tttgatgatg	acaactctcc	ttcctttatc	caaattcgct	cagttgccaa	gaagcatcct	1620
253	aaaacttggg	tacattacat	tgctgctgaa	gaggaggact	gggactatgc	tcccttagtc	1680
255	ctcgcccccg	atgacagaag	ttataaaaagt	caatatttga	acaatggccc	tcagcggatt	1740
257	ggtaggaagt	acaaaaaagt	ccgatttatg	gcatacacag	atgaaacctt	taagactcgt	1800
259	gaagctatc	agcatgaatc	aggaatcttg	ggacctttac	tttatgggga	agttggagac	1860
261	adactgttga	ttatatattaa	gaatcaagca	agcagaccat	ataacatcta	ccctcacgga	1920
263	atcactgatg	tccgtccttt	gtattcaagg	agattaccaa	aaggtgtaaa	acatttgaag	1980
265	gattttccaa	ttctgccagg	agaaatattc	aaatataaat	ggacagtgc	tgtagaagat	2040
267	gggccaacta	aatcagatcc	tcggtgcctg	acccgctatt	actctagttt	cgttaatatg	2100
269	gagagagatc	tagcttcagg	actcattggc	cctctcctca	tctgctacaa	agaatctgta	2160
271	gatcaaagag	gaaaccagat	aatgtcagac	aagaggaatg	tcacctctgt	ttctgtatct	2220
273	gatgagaacc	gaagctggta	cctcacagag	aatatacaac	gctttctccc	caatccagct	2280
275	ggagtgcagc	ttgaggatcc	agagttccaa	gcctccaaca	tcatgcacag	catcaatggc	2340
277	tatgtttttg	atagtttgca	gttgtcagtt	tgtttgcatg	aggtggcata	ctggtacatt	2400
279	ctaagcattg	gagcacagac	tgacttcctt	tctgtcttct	tctctggata	taccttcaaa	2460
281	cacaaaatgg	tctatgaaga	cacactcacc	ctattcccat	tctcaggaga	aactgtcttc	2520
283	atgtcgatgg	aaaacccagg	tctatggatt	ctgggggtgcc	acaactcaga	ctttcggaac	2580
285	agaggcatga	ccgccttact	gaaggtttct	agttgtgaca	agaacactgg	tgattattac	2640
287	gaggacagtt	atgaagatat	ttcagcatac	ttgctgagta	aaaacaatgc	cattgaacca	2700
289	agaagcttcg	aaataactcg	tactactctt	cagtcagatc	aagaggaaat	tgactatgat	2760
291	gataccatat	cagttgaaat	gaagaaggaa	gattttgaca	tttatgatga	ggatgaaaat	2820
293	cagagccccc	gcagctttca	aaagaaaaca	cgacactatt	ttattgctgc	agtggagagg	2880
295	ctctgggatt	atgggatgag	tagctcccca	catgttctaa	gaaacagggc	tcagagtggc	2940
297	agtgtccctc	agttcaagaa	agttgttttc	caggaattta	ctgatggctc	ctttactcag	3000
299	cccttatacc	gtggagaact	aaatgaacat	ttgggactcc	tggggccata	tataagagca	3060
301	gaagttgaag	ataatatcat	ggtaaactttc	agaaatcagg	cctctcgtcc	ctattccttc	3120
303	tattctagcc	ttattttctta	tgaggaagat	cagaggcaag	gagcagaacc	tagaaaaaac	3180
305	tttgtcaagc	ctaataaaac	caaaacttac	ttttggaaaag	tgcaacatca	tatggcaccc	3240
307	actaaagatg	agtttgactg	caaagcctgg	gcttattttct	ctgatgttga	cctggaaaaa	3300
309	gatgtgcact	caggcctgat	tggacccctt	ctggctctgcc	acactaacac	actgaaccct	3360
311	gctcatggga	gacaagtgc	agtacaggaa	tttgcctctgt	ttttcaccat	ctttgatgag	3420
313	acaaaaagct	ggtacttcac	tgaaaatatg	gaaagaaact	gcagggtctc	ctgcaatatc	3480
315	cagatggaag	atcccacttt	taaagagaat	tatcgcttcc	atgcaatcaa	tggctacata	3540
317	atggatacac	tacctggctt	agtaatggct	caggatcaaa	ggattcgatg	gtatctgctc	3600
319	agcatgggca	gcaatgaaaa	catccattct	attcattttca	gtggacatgt	gttactgtga	3660

## RAW SEQUENCE LISTING

DATE: 01/24/2007

PATENT APPLICATION: US/10/632,645B

TIME: 11:25:42

Input Set : E:\1011.txt

Output Set: N:\CRF4\01242007\J632645B.raw

321	cgaaaaaaag	aggagtataa	aatggcactg	tacaatctct	atccagggtg	ttttgagaca	3720
323	gtggaaatgt	taccatccaa	agctggaatt	tggcgggtgg	aatgccttat	tggcgagcat	3780
325	ctacatgctg	ggatgagcac	actttttctg	gtgtacagca	ataagtgtca	gactcccctg	3840
327	ggaatggctt	ctggacacat	tagagatttt	cagattacag	cttcaggaca	atatggacag	3900
329	tgggccccaa	agctggccag	acttcattat	tccggatcaa	tcaatgcctg	gagcaccaag	3960
331	gagccctttt	cttggatcaa	ggtggatctg	ttggcaccaa	tgattattca	cggcacaaag	4020
333	accagggtg	cccgtcagaa	gttctccagc	ctctacatct	ctcagtttat	catcatgtat	4080
335	agtcttgatg	ggaagaagtg	gcagacttat	cgaggaaatt	ccactggaac	cttaatggtc	4140
337	ttctttggca	atgtggattc	atctgggata	aaacacaata	tttttaaccc	tccaattatt	4200
339	gctcgataca	tccgtttgca	cccaactcat	tatagcattc	gcagcactct	tcgcatggag	4260
341	ttgatgggct	gtgatttaaa	tagttgcagc	atgccattgg	gaatggagag	taaagcaata	4320
343	tcagatgcac	agattactgc	ttcatcctac	tttaccaata	tgtttgccac	ctggtctcct	4380
345	tcaaaagctc	gacttcacct	ccaagggagg	agtaatgcct	ggagacctca	ggtgaataat	4440
347	ccaaaagagt	ggctgcaagt	ggacttccag	aagacaatga	aagtcacagg	agtaactact	4500
349	cagggagtaa	aatctctgct	taccagcatg	tatgtgaagg	agttcctcat	ctccagcagt	4560
351	caagatggcc	atcagtggac	tctctttttt	cagaatggca	aagtaaaggt	ttttcagggg	4620
353	aatcaagact	ccttcacacc	tgtggtgaac	tctctagacc	caccgttact	gactcgctac	4680
355	cttcgaattc	acccccagag	ttgggtgcac	cagattgccc	tgaggatgga	ggttctgggc	4740
357	tgcgaggcac	aggacctcta	ctgactcgag	aataaaaagat	cagagctcta	gagatctgtg	4800
359	tggttggttt	ttgtgtgcgg	ccgcaggaac	ccctagtgat	ggagtgggcc	actccctctc	4860
361	tgcgcgctcg	ctcgctcact	gaggccgggc	gaccaaaggt	cgcccagcgc	ccgggctttg	4920
363	cccgggcggc	ctcagtgagc	gagcgagcgc	gcagctgcct	gcaggacatg	tgagcaaaaag	4980
365	gccagcaaaa	ggccaggaac	cgtaaaaaag	ccgcgttgct	ggcgtttttc	cataggctcc	5040
367	gccccctga	cgagcatcac	aaaaatcgac	gctcaagtca	gaggtggcga	aacccgacag	5100
369	gactataaag	ataccaggcg	tttccccctg	gaagctccct	cgtgcgctct	cctggtccga	5160
371	ccctgccgct	taccggatac	ctgtccgcct	ttctcccttc	gggaagcgtg	gcgctttctc	5220
373	atagctcacg	ctgtaggtat	ctcagttcgg	tgtaggtcgt	tcgctccaag	ctgggctgtg	5280
375	tgacgaacc	ccccgttcag	cccgaaccgt	gcgccttatc	cggtaactat	cgtcttgagt	5340
377	ccaaccgggt	aagacacgac	ttatcgccac	tggcagcagc	cactggtaac	aggattagca	5400
379	gagcgaggta	tgtaggcggt	gctacagagt	tcttgaagtg	gtggcctaac	tacggctaca	5460
381	ctagaaggac	agtatttggt	atctgcgctc	tgctgaagcc	agttaccttc	ggaaaaagag	5520
383	ttggtagctc	ttgatccggc	aaacaaacca	ccgctggtag	cgttggtttt	tttgtttgca	5580
385	agcagcagat	tacgcgcaga	aaaaaaaggat	ctcaagaaga	tcctttgatc	ttttctacgg	5640
387	ggtctgacgc	tcagtggaac	gaaaactcac	gttaagggat	tttggtcatg	agattatcaa	5700
389	aaaggatctt	cacctagatc	cttttaaat	aaaaatgaag	ttttaaatca	atctaaagta	5760
391	tatatgagta	aacttggtct	gacagttacc	aatgcttaat	cagtgaggca	cctatctcag	5820
393	cgatctgtct	atttcgttca	tccatagttg	cctgactccc	cgtcgtgtag	ataactacga	5880
395	tacgggaggg	cttaccatct	ggccccagtg	ctgcaatgat	accgcgagac	ccacgctcac	5940
397	cggctccaga	tttatcagca	ataaaccagc	cagccggaag	ggccgagcgc	agaagtggtc	6000
399	ctgcaacttt	atccgcctcc	atccagtcta	ttaattgttg	ccgggaagct	agagtaagta	6060
401	gttcgccagt	taatagtttg	cgcaacggtg	ttgccattgc	tacaggcatc	gtggtgtcac	6120
403	gctcgctcgt	tggtatggct	tcattcagct	ccggttccca	acgatcaagg	cgagttacat	6180
405	gatcccccat	gttgtgcaaa	aaagcgggta	gctccttcgg	tcctccgatc	gttgtcagaa	6240
407	gtaagttggc	cgcagtgtta	tcactcatgg	ttatggcagc	actgcataat	tctcttactg	6300
409	tcatgccatc	cgtaagatgc	ttttctgtga	ctggtgagta	ctcaaccaag	tcattctgag	6360
411	aatagtgtat	gcggcgaccg	agttgctctt	gcccggcgtc	aatacgggat	aataccgcgc	6420
413	cacatagcag	aactttaaaa	gtgctcatca	ttggaaaacg	ttcttcgggg	cgaaaactct	6480
415	caaggatctt	accgctgttg	agatccagtt	cgatgtaacc	cactcgtgca	cccaactgat	6540
417	cttcagcatc	ttttactttc	accagcgttt	ctgggtgagc	aaaaacagga	aggcaaaatg	6600

**VERIFICATION SUMMARY**

DATE: 01/24/2007

PATENT APPLICATION: US/10/632,645B

TIME: 11:25:43

Input Set : E:\1011.txt

Output Set: N:\CRF4\01242007\J632645B.raw